NATURAL RESOURCES COMMISSION

JERRY C BARTNIK KEITH J CHARTERS LARRY DEVUYST PAUL EISELE JAMES P HILL DAVID HOLLI JOEY M SPANO



REPLY TO: WASTE MANAGEMENT DIVISION PO BOX 30241 LANSING MI 48909-7741

STEVENS T MASON BUILDING, PO BOX 30028, POR A 18909-7528

(NOTE HOLD THE PROPERTY OF THE PROPE

US EPA RECORDS CENTER REGION 5



Mr. Robert Sullivan Wacker Silicones Corporation 3301 Sutton Road Adrian, Michigan 49221-9397

Dear Mr. Sullivan:

SUBJECT:

Closure Certification Notice of Deficiency

Container Storage Area

Wacker Silicones Corporation (Wacker)

MID 075 400 671

The Michigan Department of Natural Resources, Waste Management Division (WMD), has completed a review of the hazardous waste container storage area closure certification document for the above referenced facility, submitted February 13, 1995.

The closure certification was reviewed for compliance with the approved closure plan, R 299.9613(3) of the hazardous waste management Administrative Rules (Rules) promulgated pursuant to Part 111 of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451 (Act 451) and 40 CFR 264.115. The closure certification is unacceptable due to the deficiencies listed in the enclosure, "Notice of Deficiency."

Please be advised that failure to submit two copies of a complete closure certification document by June 12, 1995 is a violation of R 299.9613(3) of the Rules and 40 CFR 264.115. Such a violation may subject Wacker to fines and penalties pursuant to Section 11151 of Part 111 of Act 451.

Additionally, the financial assurance requirements for closure, as outlined in Part 7 of the Rules remain in effect. Wacker is obligated to comply with the financial requirements until the Director of the Michigan Department of Natural Resources releases the company from those requirements.

If you have any questions, please contact me.

WHALA XI.

Sincerely

Angela L. Hahn Hazardous Waste Program Section

Waste Management Division

517-373-7738

Enclosure

cc/enc:

Mr. Ross del Rosario, U.S. EPA

Ms. Deborah Hennessy, Jobs Commission

Mr. Martin Jacobson, DNR Jackson

Mr. Steve Buda, DNR Ms. Jan Sealock, DNR

HWP/C&E File

Notice of Deficiency

- 1. The closure certification document must include a summary of waste types and quantities removed from the site and the destination of these wastes in accordance with R 299.9613(3)(e) of the Rules.
- 2. The closure certification document must include a certification statement supplemented by the language provided in 40 CFR 270.11(d) and be signed by the owner or operator and an independent registered professional engineer. A copy of the delegation of authority must also be included for the signatory as specified in 270.11(b). At least one copy of the independent registered professional engineer's certification must have an original stamp.

WACKER SILICONES CORPORATION LENAWEE COUNTY ADRIAN, MICHIGAN (MID075400671)

CLOSURE CERTIFICATION FOR TANK - 101

Submitted to:

Michigan Department Of Natural Resources
Waste Management Division
Box 30028
Lansing, Michigan 48909

Prepared by:

City Environmental Contracting, Inc. Detroit, Michigan

November 10, 1992

CEC Project No. 793.159

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- A. Copy of RCRA Closure Plan and Correspondences with MDNR
- B. Copy of Hazardous Waste Shipping Manifests
- C. Laboratory Analytical Reports

1.0 INTRODUCTION

In compliance with Federal (RCRA) and State (Act 64) requirements, Wacker Silicones Corporation, formerly SWS Silicones corporation, submitted a RCRA closure plan to the Michigan Department of Natural resources (MDNR) in 1984. The Closure Plan was amended in February 29, 1988 and addendums to the plan were made in 1989, 1990, 1991, and 1992 to reflect the gross national product inflation factors for those years. A copy of the closure plan is provided in Appendix A.

On October 24, 1991, Wacker Silicones Corporation (Wacker) submitted to the MDNR a notification letter of Wacker's intent to perform a partial closure of Tank 101, previously utilized for the storage of waste 1,1,1-trichloroethane, due to the cessation of 1,1,1-trichloroethane usage. A copy of the notification letter is also included in Appendix A.

Initially, arrangements were made to have SSOE, Inc. of Toledo, Ohio, perform and certify closure activities, however, Wacker elected to retain the services of a Michigan based contractor. Therefore, Inland Waters Pollution Control (IWPC), of Detroit, Michigan, was selected by Wacker to implement closure activities as specified in the closure plan. City Environmental Contracting, Inc., an affiliate of IWPC, prepared the Closure Certification.

This report summarizes the closure activities undertaken at the Wacker facility in Adrian, Michigan.

2.0 FACILITY DESCRIPTION

2.1 <u>General Description</u> - Wacker Silicones Corporation (Wacker), formerly SWS Silicones Corporation, is located at 3901 Sutton Road, Lenawee County, in Adrian, Michigan as shown in Figure 1.

Wacker manufactures a variety of silicone products including fluids, emulsions, sealants, antifoams, and rubbers. The plant employs approximately 250 people and an additional 250 people are employed at the neighboring Tech Center and administrative complex.

A variety of processes including chemical reaction, distillation, hydrolysis, mixing, and polymerization are used. Company operations are divided into four basic manufacturing areas:

- Polymers area which produces various fluids and gums including silicone oils, solvent blends, and some plant intermediates including OH fluids,
- hi-Bay area produces band ply lubes, outside tire paints, antifoams, emulsifiers, and printing fluids along with plant intermediates for polymers and RTV areas,
- RTV area produces room temperature vulcanization compounds and silicone greases, and
- HCR area produces heat curable rubber bases and compounds.

Hazardous wastes are generated by tank cleaning, byproducts generations, spent solvents from production, laboratory solvents, off-specification products and fume recovery. The hazardous waste management facilities consist of the drum storage area (800x55-gallon drums), two 15,000-gallon storage tanks, and one 25,000-gallon storage tank (Figure 2).

2.2 <u>Storage Tank And Waste Description</u> - Tank T-101, a 25,000-gallon steel horizontal above ground tank, was utilized for the storage of spent 1,1,1-trichloroethane solvent waste.

T-101 was fabricated and stamped in accordance with ASTM Code Section VIII and was rated for 200 psi and 150 F with a maximum stress value (in tension) of 13,750 psi.

The T-101 storage tank was situated on a 28-ft by 64-ft concrete pad surrounded by a 3.5 to 4-ft high reinforced concrete wall. The pad base is 4 inches thick and reinforced with 6x6 - #6 rods. The T-101 storage tank, oriented horizontally, was supported by two saddles (reinforced by 1" rods).

Spent 1,1,1-trichloroethane solvent wastes were generated from the HiBay processing area and were transported via drums and tote containers to Tank T-101. When reaching a certain volume, the accumulated waste was pumped to a tanker using an air-operated diaphragm pump and then transported to a licensed reclamation facility.

3.0 CLOSURE ACTIVITIES

3.1 <u>Waste Removal</u> - Waste material removed, along with quantities, dates, and manifest document number are summarized below. Copies of the Uniform Hazardous Waste Manifests and waste analysis are presented in Appendix B.

Manifest No.	<u>Date</u>	Quantity	Waste Code	Disposal <u>Facility</u>
MI 2176646	06/13/91	5527 gallons	F002	Petro-Chem
MI 2176647	06/18/91	4500 gallons	F002	Petro-Chem
MI 2351100	10/17/91	840 gallons	F002	E. W. C.
MI 2570105	08/10/92	45 Drums	F002	C. C.

Petro-Chem: Petro-Chem Processing, Inc.

421 Lycaste

Detroit, MI 48214

US EPA ID No.: MID980615298

E.W.C.: Environmental waste Control

27140 Princeton Ave. Inkster, MI 48141

US EPA ID No.: MID057002602

C.C.: Chemical Conservation of Georgia, Inc.

1612 A. James p. Rogers Circle

Valdosta, Georgia 31601

US EPA ID No.: GAD093380814

In preparation for closure, Wacker removed the above listed waste materials related to T-101 in the following manner:

1) Manifest MI 2176646 - The last regular shipment made on June 13, 1991 which represent the only regular shipment of 1991.

- 2) Manifest MI 2176647 This shipment made on June 18, 1991 was approximately 85% water.
- Manifest MI 2351100 This shipment made on October 17, 1991 of Tank T-101 wash-water. This water was generated during high-pressure cleaning of the T101 ancillary equipment.
- 4) Manifest MI 2570105 This shipment made on August 10, 1992 of 45 drums of T-101 tank sludge generated during closure activities.

All wash -water generated during T-101 closure activities was hauled of site for proper treatment/disposal as shown in the above waste shipment summary.

3.2 <u>Decontamination</u> - Tank T-101 decontamination activities were performed by Inland Water Polloution Control (IWPC), of Detroit, Michigan during the period of July 7 through July 10, 1992 using high pressure water cleaning (water blasting). T-101 sludges and water generated during decontamination activities were drummed pending its classification for disposal as summarized above. In addition, Wacker employees also performed decontamination activities of T-101 ancillary equipment (piping and pump) in October, 1991.

On September 15, 1992, Wacker employees dismantelled T-101 Pump and piping in three (3) foot sections and these sections were rinsed with water inside a 55-gallon drum. The rinse water was later transferred to the facility's wastewater treatment system since 1,1,1-trichloroethane was not detected above laboratory detection level of .02 ml/liter.

All decontamination activities were conducted under levels C and B protection. Confined space entry permit checklists were completed prior to any tank entry. Levels of protection included self contained -breathing apparatus (SCBA) and full face air purifying respirators, chemical resistant clothing, inner and outer chemical resistant gloves chemical resistant boots, and hard hats. Safety line and harness were also used.

4.0 CLOSURE VERIFICATION

- 4.1 <u>Verification Sampling</u> On August 19, 1992, two wipe samples were collected from the T-101 interior for 1,1,1 and 1,1,2-trichloroethane. These samples were collected to verify that decontamination activities were successful in removing any residues of the waste solvent that used to be stored inside the tank. In addition, a water sample was collected, on September 16, 1992, from the drum where T-101 ancillary equipment received its final rinse.
- Laboratory Analyses The two wipe samples were submitted to Brighton Analytical Laboratory, Inc. for 1,1,1 and 1,1,2-trichloroethane analysis using USEPA Method 8240 in accordance with protocols identified in SW-846 (Test Methods for Evaluating Solid Waste). Analysis of the wipe samples resulted in non-detection of 1,1,1 and 1,1,2-trichloroethane above the method detection level of 10 ug per wipe. Analysis of the water sample also resulted in non-detection of 1,1,1 trichloroethane above laboratory method detection level of 20 ug/liter.

Copies of laboratory reports along with their QA/QC documentation and chain of custody forms are provided in Appendix C.

5.0 CERTIFICATION OF CLOSURE

I, Kirit T. Ravani, being a duly licensed Professional Engineer registered in the State of Michigan, and I, Gordon C. Philbrook, Administrator of Environmental Regulations at the Wacker Silicones Corporation and a duly licensed Professional Engineer registered in the State of Michigan, do hereby certify that the hazardous waste unit (Tank 101) of the Wacker Silicones Corporations (USEPA ID # MID 075400671), has to best of our knowledge and belief, been closed in substantial accordance with the plans and specifications in the closure plan and its approved amendments by the Michigan Department of Natural Resources (MDNR). Completion of the physical closure activities at the aforementioned facility was accomplished on the 15th day of September, 1992.

Upon request by the Michigan Department of Natural Resources, additional documentation supporting this certification will be furnished in accordance with the requirements of 40 CFR

265.115.
Signature: Erit J. Ravani Date: 11-10-92

Business Address: City Environmental Contracting, Inc.

2021 S. Schaefer Hwy

Detroit, Michigan 48217

Business Telephone: (313) 841-5800

Engineer License No.: Michigan - 21003

Business Address: Wacker Silicones Corporation

3301 Sutton Road

Adrian, Michigan 49221-9397

Business Telephone: (517) 264-8500

Engineer License No.: Michigan - 18243

Nool Date: 11-12-92

6.0 CERTIFICATION CHECKLIST

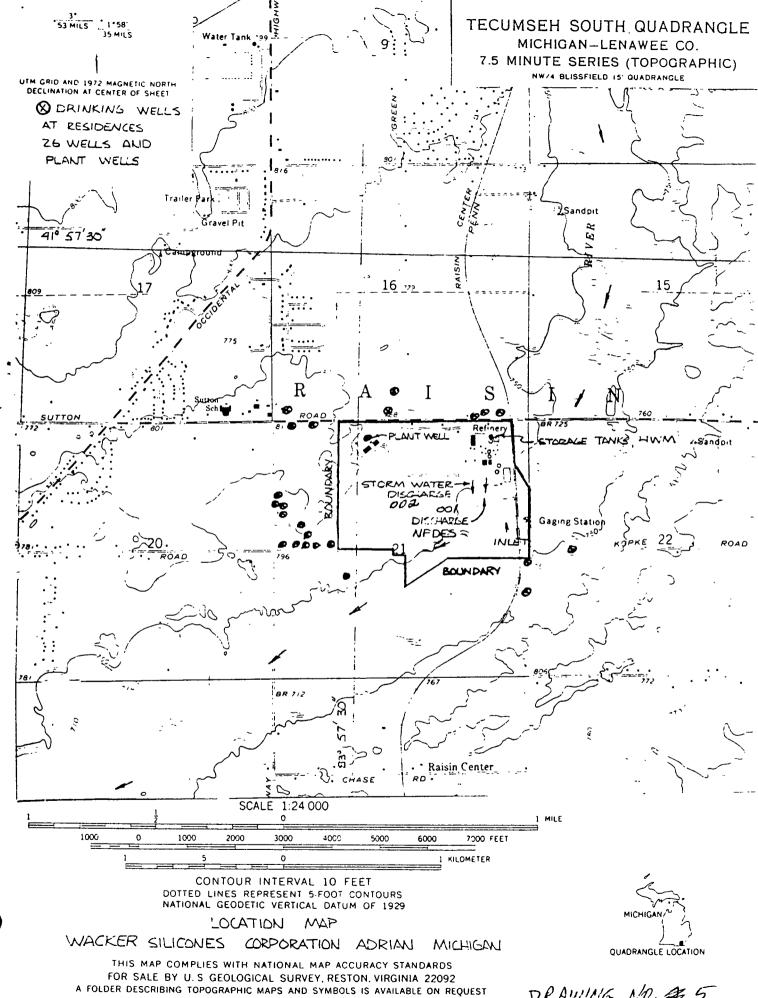
In accordance with MDNR certification requirements, the following closure checklist is provided:

- This report includes manifests documenting that wastes generated before and during closure activities have been properly transported to a licensed treatment and disposal facility as discussed in Section 3.0 of this report and presented in Appendix B.
- A certification statement by the Owner/Operator and an independent registered engineer is included in Section 5.0 of this report.
- A summary of decontamination procedures are discussed in Section 3.2 of this report.

 The procedures identified in the closure plan and its modifications were followed during decontamination activities.
- The results of the analysis performed after completion of closure activities are contained in Section 4.0 of this report and are included in Appendix C.
- A copy of the closure plan and relevant correspondences are provided in Appendix A of this report.

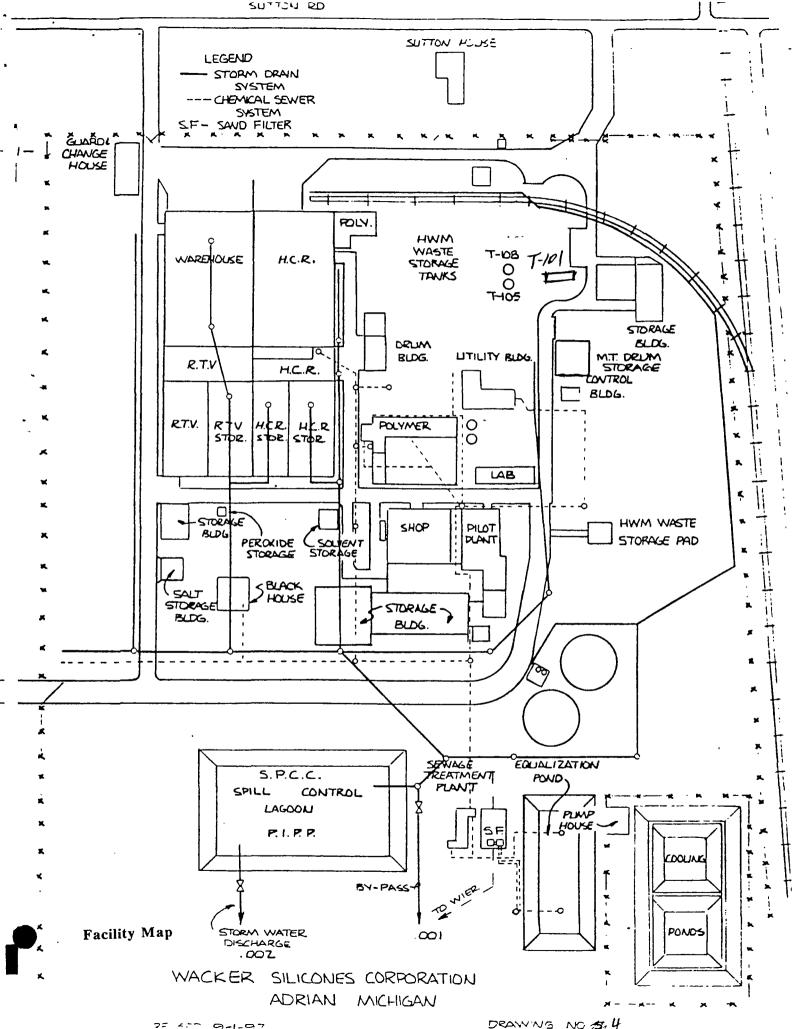


FIGURE 1 FACILITY LOCATION MAP



PRAWING NO. 安5

FIGURE 2
FACILITY MAP



APPENDIX A

RCRA CLOSURE PLAN & CORRESPONDENCE WITH MDNR

WACKER SILICONES CORPORATION

RCRA Closure Plan

I. Tanks

It is estimated that the tanks will require closure about the year 2001. Generally, tanks containing hazardous waste materials will be emptied to tank trucks for removal and disposal of contents. Only Michigan, US EPA, and Wacker-approved haulers will be used. Only US EPA and Wacker-approved disposers will be used.

Tanks and ancillary equipment will then be decontaminated by washing the tank, piping, pump, and associated equipment with three increments of water and industrial detergent. The washing agent will be recirculated and pumped by high pressure lance. Washings will be put in drums for disposal by an approved hauler and disposer.

The tanks, piping, and associated equipment will then be purged with air. The entire schedule of closure should take about 4 months.

The tanks can then be used to store hazardous wastes for periods less than 90 days.

An independent professional engineer will certify completion of the closure.

II. Drum Storage

It is estimated that the storage pad will require closure in about the year 2021. Generally, drum storage areas will be emptied by the removal of the drums to an approved disposer. Only Michigan, US EPA and Wacker-approved haulers will be used. Only US EPA, Wacker and possibly Michigan-approved disposers will be used.

The drum pad will be washed with water and industrial detergent. Washings will be put in drums for disposal by an approved hauler and disposer, if contaminated. Otherwise, the washings will go to the chemical sewer. The entire schedule of closure should take about 3 months.

After thorough decontamination, the storage pad will be used for storage of hazardous wastes for periods less than 90 days.

An independent professional engineer will certify completion of the closure.

See attached forms for closure plan tanks and drum storage areas.



Certified by,

Gordon C. Philbrook

Wacker Silicones Corporation Administrator, Environmental

Regulations

Professional Engineer

State of Michigan

PE 18243

Revised: February 29, 1988

Wacker Silicones Corporation



Wacker Silicones Corporation 3301 Sutton Road Adrian, MI 49221-9397 (517) 264-8500 Fax (517) 264-8246

October 24, 1991

Michigan Department of Natural Resources Waste Management Division 1st Floor, South Ottawa Building P. O. Box 30028 Lansing, Michigan 48909

Re: Wacker Silicones Corporation (formerly SWS Silicones Corporation) US EPA ID# MID 075400671

Gentlemen:

We have a final "Part B" Resource Conservation and Recovery Act (RCRA) Permit to store hazardous waste at our facility. The permit will expire on September 10, 1994.

The permit covers storage in containers on a storage pad, and storage in three tanks, T-101, T-105 and T-108.

In accordance with Act No. 64, R 299.9613 (Rule 613), Closure and Post-Closure, this letter is to notify you that we plan to do a partial-closure of this permit by closing-out the T-101 storage tank. This tank was used to store waste 1,1,1-trichloroethane. However, we no longer use this solvent as a cleaning agent.

The tank is now essentially empty. The waste 1,1,1-trichloroethane was sent to a solvent reclaimer, Petro Chem, Inc., in Detroit. Also a waste-water layer was sent to an approved waste treatment company, Environmental Waste Control, Inc. in Inkster. This included the first high-pressure lance washing. A small amount, (about 1,050 gallons) of rusty water remains in the tank.

Attached is a copy of the Wacker Silicones Corporation RCRA Closure Plan. We are proposing a slight deviation from the attached procedure. After the initial washing with a high pressure lauce (which did go to Environmental Waste Control), the subsequent washings, which will be only slightly contaminated, will be taken to our own on-site waste wash-water treating system, which is part of our

approved NPDES permit operation (Michigan Permit Number 0026034).

We expect to have the completed, certified closure of T-101 in about 90 days. We have arranged for the services of a professional engineer from SSOE, Inc. of Toledo, Ohio, to verify the closure procedure.

If you need any more information, please contact me at the above address, or call me at 517-264-8361.

Yours truly,

WACKER SILICONES CORPORATION

ilbrookers

Gordon C. Philbrook

Administrator,

Environmental Regulations

Certified

CC: Mr. Martin Jacobson (MDNR, Jackson MI)
US EPA, Region V

BCC: J. BARANCIN

- S. ETTER
- S. KLEIN
- R. KOEHLER
- J. LORENZEN
- M. REALE (M&R CONSULTANTS)
- W. VOGEL

INTER-OFFICE CORRESPONDENCE WACKER SILICONES CORPORATION

TO: J. BARANCIN DATE: JANUARY 13, 1992

CC: D. BRIGGS FROM: G. C. PHILBROOK

S. ETTER

R. KOEHLER SUBJECT: CLOSURE OF T-101

J. LORENZEN

S. RUFFNER

W. VOGEL

On January 10, 1992, I called Mr. Martin Jacobson of the Michigan Department of Natural Resources (MDNR) concerning the closure of T-101.

I reminded him of the memo dated October 24, 1991 on this subject. I told him that the only change to the Closure Plan would be that we are probably going to have to sand blast the interior of the tank due to the rust layer.

Mr. Jacobson said that the plan sounds good and to send the MDNR a certified professional engineer statement after the tank has been all cleaned up. After the MDNR approval, the tank will be considered closed, and we can remove T-101 from the permit and from the Closure Plan.

Therefore, I am requesting that you proceed with getting the rusty water out of T-101 (via tote tanks to wash-water treating system), and arranging for sand blasting.

Please let me know the timing on this project.

G. C. Philbrook

APPENDIX B HAZARDOUS WASTE SHIPPING MANIFESTS

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969. 1969.

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WACKER SILICONES CORP

PETRO-CHEM PROCESSING, INC. 421k LYCASTE DETROIT, MI 48214

CONTROL NO.

C-13-1

MEFERENCE Prepaid

PETRO-CHEM PROCESSING, INC.

PACKAGE		QUANTITY	DESCRIPTION B/L CODE	C	ODE/PART NET QUANTITY
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NO/TYPE OF PKGS	НМ	DESCRIPTION OF AR	TICLES	B/L CODE	GROSS WEIGHT
1 BULK TANK	X	RQ, Wast	e 1.1.1. TRICHLOROETHANE ORM-A (FOO2) Potro EST. A PERPORMEN		89,260 30,340 58,920 5,260 gal

Wacker Silicones Corporation



Wacker Silicones Corporation 3301 Sutton Road Adrian, MI 49221-9397 (517) 264-8500 Fax (517) 264-8246

July 2, 1991

Michigan Department of Natural Resources
Waste Management Division
P. O. Box 30038
Lansing, Michigan 48909

Gentlemen:

 ${\bf I}$ wish to report a correction for a waste shipment to Petro-Chem Processing:

MI 2176646; WS 1020; June 13, 1991

The correct amount should be 5,527 gallons (not 4,500 gallons); the loader misread the "outage" measurement of the trailer.

Yours truly,

WACKER SILICONES CORPORATION

Gordon C. Philbrook

Administrator,

Environmental Regulations

Certified

CC: Mr. Bob White, Petro-Chem

BCC: P. Brosamer

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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PR 5110 Rev. 4/90

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	Four Placards (*2831) Supplied		÷ •		
1	5. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and				
	proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proj according to applicable international and national government regulations.	per condition	n for tran	sport by highway	••
١.	If I am a large quantity generator, I certify that I have a program in place to reduce the volume	and toxicity	of wast	e generated to th	e degree I have determin
	to be economically practicable and that I have selected the practicable method of treatment, st	torage, or d senerator. I	isposai i have m	currentiv avallable	e to me waka minimizes u
1	generation and select the best waste management method that is available to me and the	nat I can at	ford.	ż	
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1	 Facility Owner or Operator: Certification of receipt of hazardous materials covered item 19. 	T DA THIÈ IL	10111165	: except as note	Date
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		UNIFORM HAZARDOUS	21. Generator's U	S EPA ID No.	Doc	Manifest coment No.	22. Page	Informat required	ion in the	shaded areas is not ral law.
1		WASTE MANIFEST (Continuation Sheet)	M.I.D.O.7.	5.4.0.0.	6.7.1 0.1	2.7.8	2 of :		~,	• • • • • • • • • • • • • • • • • • • •
t	23.	Generator's Name	11.12.2.						ent Numi	ber 4 (1/2 2 2
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T		Transporter3 Company Name		25. US EPA ID N			N. State T	ransporter's ID		
		CHEMICAL CONSERVATION COR	P	F. L. D. 9.	8. 0. 5. 5.	9 <u>. 7. 2. 8</u>	O. Transp	orter's Phone	407	859-4441
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ŀ	28.	US DOT Description (Including Proper Shipping Name, H	Hozard Class, and ID N	umber)		29. Cont	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
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Bill of College

WACKER SILICONES CORP 3301 SUTTON RD

DATE	SHIPPER NO.
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6/18/91	B.L. # 6172
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PETRO-CHEM PROCESSING INC.

S PETRO-CHEM PROCESSING INC.

431 Lycaste
Detroit, MI 48214

FOR NUMBER

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REFERENCE PREGAUD

OET PETRO CHEM PROCESSING INC.

PACKAGE		QUANTITY	DESCRIPTION B/L CODE		CODE	E/PART NET QUANT	ITY
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PER ORIGIN CARRIER NAME PER DATE

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EPA Form 8700-22 (Rev 9/88)

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Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, PA. 1969.

PR 5110 Rev. 9/90

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ì	3.	Generator's Name and Mailing Address			A. St	ate Ma	nifest D	ocume	nt Number 1	, , ,
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Н		present and future threat to human health and the environment; OR; generation and select the best waste management method that is	if I am a small quantity qu	enerator, l	have m	ade a go	od faith	effort to	minimize my wa	aste
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WACKER SILICONES CORPORATION 3307 Sucton Rd. Adrian, MI 49221

DATE	SHIPPER NO.
10/17/91	6615

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CHEMTREC PHONE NO. 800-424-9300 WACKER SILICONES CORP. 517-264-8500 STATE MANIFEST NO. 2351100

ENVIRONMENTAL WASTE CONTROL 27140 PRINCETON AVE INKSTER, MI 48141

NTROL NO

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Prepaid REFERENCE

Quanta Corp.

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B/L CODE	GROSS WEIGHT
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N AT 1-800-292-4708 OR OUT OF STATE AT 517-373-7680 AND THE NATIONAL RESPONSE

MUST BE REPORTED TO THE MICHIGÁN POLLUTION EMERGENCY ALERTING SYSTEM, IN MIC 1-800-424-4802 24 HOURS PER DAY.

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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]	Required under authority of Act 64, PA 1979, as amended and Act 136, PA.
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	Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, RA. 1969.

PR 511 Rev. 9

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Pa ? STRAIGHT/RUKIFOF ISIDING-SHORT EORID ORIGINAL-NOT NEGOTIABLE. SELE" subject to the classifications and tauffs in effect on the date of the issue of this Bull of Lading. DATE Adrian, MI 49221 8/9/92 B.L. 7640 CHEMTREC PHONE NO. 800-424-9300 WACKER SILICONES CORPORATION 517-264-8500 STATE MANIFEST NO. THIS IS TO CERTIFY THAT THE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. THE DESCRIPTION AND WEIGHT ON THIS BILL OF LADING ARE CORRECT, SUBJECT TO VERIFICATION BY THE EASTERN, WESTERN, TCFB AND/OR SOUTHERN WEIGHING AND INSPECTION BUREAUS, ACCORDING TO AGREEMENT. "ALL DETENTION CHARGES AT UNLOADING POINT ARE TO BE BILLED AND COLLECTED FROM CON-SIGNEE EXCEPT ON STOP-OFF SHIPMENTS". CHEMICAL CONSERVATION OF GEORGIA, INC. 1612 JAMES P. RODGERS CIRCLE, VALDOSTA, GA 31601 c/o CHEM MET SERVICES 18550 ALLEN RD., WYANDOTTE, MI 48192 CONTROL NO. FREIGHT TERMS BOUTE Prepaid QUANTA CORP. PACKAGE QUANTITY DESCRIPTION B/L CODE CODE/PART NET QUANTITY 22,500# T-101 Sludge Code: **WACG 0379** 45 Drums NO/TYPE OF PKGS. DESCRIPTION OF ARTICLES B/L CODE **GROSS WEIGHT** нм 24,750 HATARDOUS WASTE LIQUID, N.O.S. (CONTAINS 45 Drums

NOTIVE OF PKGS.

HM DESCRIPTION OF ARTICLES

HAZARDOUS WASTE LIQUID, N.O.S. (CONTAINS
1,1,1 TRICHLOROFTHANE), RQ, (F002)

ORM-E

NA 9189

Subject to Section 7 of Conditions of applicable bill of leating, if this shipment is to be delivered to the consignee without recourse on the consigner, the canaligner shall sign the following selections.

The carrier shall not make delivery of this shipment without payment of height and other leavish channes.

(SIGNATURE OF CONSIGNOR)

EORM 97.014 2/90

ORIGIN CARRIER NAME

B-1/ (PER ()10, SPATE 8-11)



WACKER SILICO COMPONATION INSTRUMENTAL ANALYSIS REQUEST

Submitter G. Philbrook		Analysis No. <u>3885</u>
Sample Description T-101 Waste Sample Safety Precautions Normal Hygene Prac.		Date
Check Appropriate Blanks. This Sample for -	COATINGS	QUALITY ASSURANCE PLANT ASSISTANCE DEVELOPMENT TECHNICAL/CUSTOMER SERVICE
Circle or Check Analysis Desired: NMR	GAS CHROMOTOGRAPHY Detector: TCD FID Temp. Range: Column: Capillary Packed Type (OV-1, etc.): Purge and Trap:	SiH ppm Particle Size Analysis
Results: Me, 5,0 = 5.6% III, Trichloroethene = 88.6% Aliphatics = 2.8%		Analyst

Ship 12/18/90 Soldon Chlorothene waste 7-101 awalysis No 3917 by NMR Showed 3.2 % Aliphatics Silicon-4.5 % Mech 2.6% 111-Tri-Chloroethane 89.72 (1/2/94) Strue Ross

WACKER SILICOLES CORPORATION INSTRUMENTAL ANALYSIS REQUEST

· 0011		A	nalysis No. <u>4072</u>
Submitter G Philorous Sample Description To 101 Safety Precautions	ch lorothene waste- (wate	r) layer o	lotebook No
Check Appropriate Blanks	s. This Sample for -	. L	ot No
FLUIDS RTV HCR PAINT & CONST	PAPE TEXT OTHE	ILES	QUALITY ASSURANCE PLANT ASSISTANCE DEVELOPMENT TECHNICAL/CUSTOMER SERVICE
Circle or Check Analysis Desired:			
Proton: 60 MHz	GPC Long Col Short Col IR KBR NEAT CAST FILM ATR UV REFRACTIVE INDEX SPV HPLC	GAS CHROMOTOGRAPHY Detector: TCD FID Temp. Range: Column: Capillary Packed Type (OV-1, etc.): Purge and Trap:	Est. Conc. Result SiOH ppm SiH ppm Particle Size Analysis Est. Range
•	III, water, Silic.	· · · · · · · · · · · · · · · · · · ·	
Results: -875%.	~ 1.2% unlinown org	10.8%	Analyst $M > M$ Date $6 - 21 - 91$

"MA" TR " ICT" TS CORPORATION

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INSTRUMENTAL ANALYSIS' REQUEST

	4	Ana	alysis No. 4142
Submitter <u>Mordon Phills</u>		Dat	5-22-92
Sample Description	3LVP6E		
Safety Precautions		Not	ebook No.
Check Appropriate Blanks.	This Sample for -	·Lot	No
FLUIDS RTV HCR PAINT & CONSTR	TI	EXTILES	QUALITY ASSURANCE PLANT ASSISTANCE DEVELOPMENT TECHNICAL/CUSTOMER SERVICE
NMR Proton: 60 MHz 300 MHz	GPC Long Col. Short Col. IR KBR NEAT CAST FILM ATR	Detector: TCD FID	3011 pp
Carbon - 13 Silicone - 29 Other	REFRACTIVE INDEX	Column: Capillary Packed	Particle Size Analysis
% VI % Other Solvent	HPLC	Purge and Trap: 1/1 - Tricklone.	Est. Range
Statement of Problem: (Be specific - Characteristics) Results: Approx con-	acterization, Identification, Purity, etc.)	1,1,1 trichloroethane An	halyst $B = 6 - 1 - 92$

APPENDIX C

LABORATORY ANALYTICAL REPORTS



47930 West Rd. • Wixom, MI 48393

Phone: (313) 624-3090 • Fax (313) 624-3095

Date: 10-29-1992 To: INLAND WATERS, INC.

2021 S. Schaefer Hwy.

NUV 4 形型 Detroit, MI 48217

Date Submitted: 08/19/92

BA Report No. 509 BA Sample No. BA01030

Sample Description: Wacker Silicon, Tank T-101

Parameters:	Unit	Result	MDL	Reg Lim	Method
1,1,1-Trichloroethane	ug/wipe	nd	10		8240
1,1,2-Trichloroethane	ug/wipe	nd	10		8240

.DL: Minimum Detection Level

nd: Not Detected

Not Det: Not Detected dnf: Did Not Flash

Reviewed By:

Date:

BRIGHTON ANANLYICAL, INC.

VOLATILE ANALYSIS SURROGATE RECOVERY

Method: 8240

Date of Analysis: Hugust 27, 1992 B.A. Sample I.D.: 01030

Surrogate	% Recovery
1,2-Dichloroethane-d4	119%
Toluene-d8	96%
4-Bromofluorobenzene	87%

CAL

Canton Analytical Laboratory, Inc.
- 47801 Anchor Court Plymouth, Michigan 48170
(313) 459-8484 FAX (313) 459-8262

№ 2379 CHAIN OF CUSTODY RECORD

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MAINTENANCE

....JKL. SILIUUN CO... JAMIION

INSTRUMENTAL ANALYSIS REQUEST

SUPERINTENDEN.		ADMINISTRATOR,	Inalysis No. 4163
Sample Description T-101	Roche (G. Ph. Horos Naste Water — Di to	REGER RUM OF WATER USED O	Date 9-16-92
			ot No.
Check Appropriate Bis FLUIDS RTV HCR PAINT & CON			QUALITY ASSURANCEPLANT ASSISTANCEDEVELOPMENTTECHNICAL/CUSTOMER SERVICE
Proten: 60 MHz 300 MHz Carbon13 Silicone - 29 Other	GPC Long Col Short Col IR KBR NEAT CAST FILM ATR UV REFRACTIVE INDEX SPV	Detector: TCD FID	Particle Size Analysis
% OtherSolvent		Purge and Trap:	Est. Range
UTrich			
Results:	Purge & Trap = <		Analyst
			Date

Wacker Silicones Corporation 3301 Sutton Road Adrian, MI 49221-9397 (517) 264-8500 Fax (517) 264-8246

November 16, 1992

xc: Rich Traub, EPA . w/ Certification

Michigan Department of Natural Resources Waste Management Division 1st Floor, South Ottawa Building P. O. Box 30028 Lansing, Michigan 48909

Wacker Silicones Corporation

US EPA ID# MID 075400671

Gentlemen:

Called Gordon Philbrook 2/3/93
to request submittal of the
company certification with
40 CFR 270.11 (d) wording.
He will fax it by 2/8/93.
Thenyl fax: This is a follow-up to my letter to your dated October 24, 1991 concerning the closure of one of our hazardous waste storage tanks, T-101.

Enclosed are two copies of the Closure Certification which were prepared by City Environmental Contracting, Inc.

We are affirming that this job is completed, and we are removing the T-101 tank from our RCRA Part B hazardous waste storage permit and from our RCRA Closure Plan.

If you have any questions, please call me at 517-264-8361.

Yours truly,

WACKER SILICONES CORPORATION

Gordon C. Philbrook

Administrator,

Environmental Regulations

Certified

W/l copy - Certified Mr. Martin Jacobson MDNR Jackson Office

RECEIVED

NOV 1 7 1992

Waste Management Division

Wacker Silicones Corporation 3301 Sutton Road Adrian, MI 49221-9397 (517) 264-8500 Fax (517) 264-8246

February 3, 1993

Ms. Cheryl Howe Michigan Department of Natural Resources Waste Management Division 1st Floor, South Ottawa Building P. O. Box 30028 Lansing, Michigan 48909

Wacker Silicones Corporation US EPA ID # MID 075400671 Closure of T-101 Tank

Dear Ms. Howe:

In response to the telephone conversation, with our Mr. Gordon Philbrook, on February 3, 1993, we are certifying the closure of the storage tank T-101, as follows; as per 40 CFR 270.11(d):

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or the persons directly responsible for gathering the information, the information submitted is, to be the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Yours truly,

WACKER SILICONES CORPORATION

Wolfgang F. Vogel Vice President - Op

Certified, 2 Copies

CC: Certified

> Mr. Martin Jacobson MDNR Jackson Office